

displaying a map;

displaying a first camera index indicative of a position of the camera in a state of being superimposed on the map; and

displaying a second camera index, on the map, indicative of a state of a current tilting direction of the camera in relation to the first camera index by changing said second camera index up and down along a vertical direction of a screen. --.

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REMARKS

Claims 1-9, 11, and 21 have been amended and claims 10, 20 and 30 have been cancelled.

Attached hereto is a marked-up version of the changes to the claims and the specification made by this Amendment. This marked-up version has been entitled "Version With Markings To Show Changes Made."

The Examiner has rejected applicants' claims 1-30 under 35 USC § 102(b) as being anticipated by the Kawai, et al. reference. Applicants have cancelled claims 10, 20 and 30, thereby obviating the Examiner's rejection with respect to these claims. Applicants have also amended applicants' claims 1-9, 11 and 21 and, with respect to such claims, as amended, and their respective dependent claims, the Examiner's rejection is respectfully traversed.

Applicants' independent claims 1, 11 and 21 have been amended to better define the applicants' invention and to better distinguish the present invention from the cited reference. More particularly, the present invention aims to provide a camera control system in which the tilting direction of the camera may be adjusted by changing a second camera index up and down

along the vertical direction of a screen.

Specifically, the present invention, as characterized by the amended claim 1, comprises a camera, a first camera index indicative of the position of the camera, a second camera index indicative of the state of a current tilting direction of the camera and a communicating device adapted to receive an image picked up by the camera. Amended claim 1 further requires that the tilting direction of the camera be adjusted by changing the second camera index up and down in the vertical direction of the screen. As described in the amended claim 11, the present invention comprises a control method for a camera control system comprising a map display step, a first camera index display step and a second camera index display step. Amended claim 11 additionally requires that the second camera display step include the changing of the second camera index up and down along a vertical direction of a screen. Finally, the present invention, as characterized by the amended claim 21, comprises a storage medium which stores a program for operating the functions of a camera control system, which comprises the processes of displaying a map, displaying a first camera index and displaying a second camera index on the map. Similarly to amended claims 1 and 11, amended claim 21 also requires that the tilting direction be adjusted by changing the second camera index up and down along a vertical direction of a screen. Such constructions are not taught or suggested by the cited art of record.

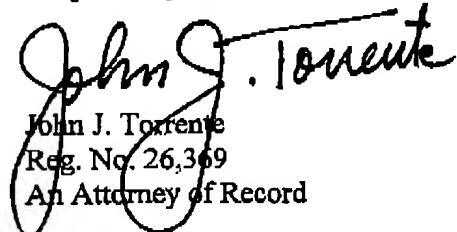
The Kawai, et al. patent relates to a camera control system wherein "the focal point, pan angle, tilt angle, and zoom ratio are adjusted by operating the camera and its auxiliary line on the map using the mouse." Col. 12, lines 36-38. As disclosed in the Kawai, et al. patent, a tilt line (155) is displayed on the map together with the camera icon (col. 12, lines 38-43) and the tilt angle can be changed on the map on the horizontal plane. Col. 14, lines 14-30. Specifically, the

Kawai, et al. patent, discloses the changing of a tilt angle of the camera by dragging the tilt line (155) from right to left and vice versa along the horizontal direction of the screen. Col. 14, lines 23-30. However, there is nothing taught or suggested in the Kawai, et al. patent of the changing of the tilting direction of the camera by changing the second camera index up and down along the vertical direction of the screen. Applicants' amended claims 1, 11 and 21, and their respective dependent claims, all of which recite such feature, thus patentably distinguish over the Kawai, et al. patent.

In view of the above, it is submitted that applicants' claims, as amended, patentably distinguish over the cited art of record. Accordingly, reconsideration of the claims is respectfully requested.

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Respectfully submitted,



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Version With Markings To Show Changes MadeIN THE CLAIMS

Cancel claims 10, 20 and 30.

Amend claims 1-9, 11 and 21 as follows:

-- 1. (Amended) A camera control system [capable of selectively] for controlling an image pickup direction of [at least one] a camera connected to said camera control system through a network, said camera control system comprising:

[map display means for displaying] a display control device adapted to display a map; [first camera index display means for displaying] a first camera index indicative of a position of the camera in a state of being superimposed on the map [displayed by said map display means;] and

[second camera index display means for displaying] a second camera index on the map, indicative of a state of a current tilting direction of the camera in relation to the first camera index by changing said second camera index up and down along a vertical direction of a screen; and [displayed by said first camera index display means]

a communicating device adapted to receive an image picked up by the camera. --.

- 2. (Amended) A camera control system according to claim 1, [further comprising control means for,] wherein said communicating device outputs a command for, in response to designating the second camera index [displayed by said second camera index display means], enabling the tilting direction of a camera which corresponds to the designated second camera index, to be controlled. --.

- 3. (Amended) A camera control system according to claim 1, wherein said second camera index [display means is arranged to display the second camera index] is displayed in response to designating the first camera index.. --.
- 4. (Amended) A camera control system according to claim 1, wherein the second camera index [displayed by said second camera index display means] is an icon, and indicates the state of the tilting direction of a camera which corresponds to said icon. --.
- 5. (Amended) A camera control system according to claim 2, [further comprising tilting direction display means for, in response to designating the second camera index displayed by said second camera index display means, displaying] wherein said display control device displays information on the current tilting direction of a camera which corresponds to the designated second camera [index] index in response to designating the second camera index. --.
- 6. (Amended) A camera control system according to claim 5, [further comprising allowable range display means for displaying] wherein said display control device displays information on a controllable range in the tilting direction of the camera as well as information on the current tilting direction of the camera [displayed by said tilting direction display means].
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- 7. (Amended) A camera control system according to claim 6, wherein [said allowable range display means is arranged to display] said display control device displays information on the controllable range of the camera by using a scroll bar, and [said tilting direction display means is arranged to display] displays [on the scroll bar] an index indicative of a current image pickup direction of the camera on the scroll bar. --.

- 8. (Amended) A camera control system according to claim 7, wherein said [control means is arranged to enable] communicating device outputs a command for enabling the tilting direction of the camera to be controlled in response to designating and moving the index [displayed by said tilting direction display means] on the scroll bar. --.
- 9. (Amended) A camera control system according to claim 8, wherein the second camera index [displayed by said second camera index display means] indicates the tilting direction of the camera in association with movement of the index [displayed by said tilting direction display means] on the scroll bar. --.
- 11. (Amended) A control method for a camera control system [capable of selectively] for controlling an image pickup direction of [at least one] a camera connected to said camera control system through a network, said control method comprising:
  - a [map] map display step of displaying a map;
  - a first camera index display step of displaying a first camera index indicative of a position of the camera in a state of being superimposed on the map [displayed by said map display step]; and
  - a second camera index display step of displaying a second camera index on the map indicative of a state of a current tilting direction of the camera in relation to the first camera index [displayed by said first camera index display step] by changing said second camera index up and down along a vertical direction of a screen. --.
- 21. (Amended) A storage medium which stores therein a program for operating functions of a camera control system [capable of selectively] for controlling an image pickup direction of [at least one] a camera connected to the camera control system through a network,

said program comprising processes of:

displaying a map;

displaying a first camera index indicative of a position of the camera in a state of being superimposed on the map [displayed]; and

displaying a second camera index, on the map, indicative of a state of a current tilting direction of the camera in relation to the first camera index [displayed] by changing said second camera index up and down along a vertical direction of a screen. --.